The Cary Arboretum

of The New York Botanical Garden

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State Department Says O.K. to Russian Exchange

A scheduled visit by Dr. Thomas Elias and C[illegible]bert Long to Moscow and Leningrad [illegible]pril 5 has been approved by the U.S. State Department in Washington.

Dr. Elias, Assistant Director at the Arboretum, and coordinator of a bi-lateral exchange program with the U.S.S.R., and Mr. C. Robert Long, Director of Library Resources in the Bronx, will be the first Americans to travel to the U.S.S.R. under the Agreement on Cooperation in the Field of Environmental Protection since the invasion of Afghanistan late last year.

According to Dr. Elias, the activity relating to botanical exchanges of the bilateral agreement has been one of the smoothest-running exchange programs between the two countries, with botanists from each area visiting the others' country several times during the seven-year period.

During the visit, Dr. Elias will gather information on Soviet Union forest resources and publications relating to botany and forestry, and Mr. Long will meet with heads of Soviet libraries and exchange programs to increase the flow of technical and scientific literature to the United States.

A 45-day field trip in August to the Southern Ural Mountains by three American scientists is still under consideration by the State Department. "Since they are reviewing each program on a case-by-case basis," says Dr. Elias, "it will be quite some time before we know if that exchange is approved."

Although the U.S. State Department has cancelled several U.S.A. - U.S.S.R. exchange programs, a favorable decision to continue the botanical exchange this year still appears likely.

Tom Thurston is one of many students pursuing a career at the Cary Arboretum. See story inside.

Sticky Stuff [illegible]ere Again

Maple Sugaring Weekend, one of the Arboretum's most delicious events, will be held Saturday and Sunday, March 15 and 16, at the Gifford House Education and Visitor Center.

You are invited to join the fun as Arboretum staff members and volunteers, with the assistance this year from Ms. Barrie Kavasch of the American Indian Archaeological Institute, and author of *Native Harvests: Botanicals and Recipes of the American Indian*, demonstrate the art and science of maple sugaring – an activity carried out in the northeast for several centuries. In addition to learning about the history of maple sugaring as done by American Indians, visitors can participate in tapping, boiling, and candy-

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Energy Forum Co-Sponsored by Cary

"Energy and the Way We Live", a nationwide forum designed to examine energy issues, will be held in the Dutchess County area during the months of March and April.

The forum, which is offered free to the public, reaches virtually every region in the United States and is a program of the American Association of Community and Junior Colleges. It is funded by the National Endowment for the Humanities and the U.S. Department of Energy.

On March 19, members of Central Hudson, the Rhinebeck Planning

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Fishing Program Underway

A limited number of permits will be issued this year in the annual stream ecology program.

Persons interested in applying for fishing applications should please contact Mrs. Phyllis Haight, 677-5343.

Students at Cary: The Joined Efforts of Hand, Heart and Mind

Text and photos by Robin Parow

Virtually everywhere you look on the Arboretum grounds, you will find students pursuing academic projects in the fields of ecology, botany, wildlife, horticulture, chemistry, or education. These students provide exceptionally able and devoted assistance for many Arboretum programs, which benefit from dedicated personal involvement which cannot be bought at any price. They are greatly supported by Cary staff members, who pass along their own academic experiences and, in return, hope that these students will extend the knowledge gained to the next scientific generation.

Bob Tierney spends most of his 40-hour work week extracting lipids from human hair in a quiet laboratory located in the scientific wing of the solar heated Plant Science Building. His research focuses on deer repellents, and has been significant in proving that human hair, when suspended from trees in fist-sized capsules, deters deer from browsing on the Arboretum's valuable plant collections, a homeowner's prize specimen, or any plant of commercial value.

Bob's work on the deer repellency study is just one branch of biology he has encountered in the Arboretum's Wildlife Department. As a student at Dutchess Community College in 1975, he volunteered his time spotlighting deer on the grounds. As a student at SUNY/ New Paltz, he worked at the Arboretum for college credit toward his BS degree in biology. Under the supervision of Coordinator of Wildlife Resources Jay McAninch, Bob has studied deer trapping, deer reproduction, and has worked on an index to indicate various causes of deer death. While working towards a Master's Degree in biology, Bob will become a teaching and research assistant at Ohio State University in June.

Ann Gavett graduated with a BS degree in forest biology from SUNY/Syracuse in December, 1979. Her internship in the Arboretum's Wildlife Department will include research on weasels through radio tracking, and on deer reproduction. Inspired by Mr. McAninch at a college wildlife society meeting, Ann decided that volunteer work at Cary would provide good background and experience with diverse aspects of wildlife management. This May, Ann will be applying to graduate schools in the northeast and Minnesota.

Giaco Ingenio has also been involved with the Arboretum's Wildlife Department. An Arlington High School Senior, he says he has chosen to major in Natural Resource Science as a result of his training at Cary. Giaco has worked as a volunteer in the Wildlife Department for two years and has been involved in many of the Department's research projects, including weasel and deer trapping, and construction of an outrigger deer fence around the major research field on the grounds. A resident of Pleasant Valley, Giaco spends the summer months and "any extra spare time"expanding his knowledge of wildlife biology at the Cary Arboretum. In this way he exemplifies many students who spend more than the "required" hours here for the pleasure and excitement of involvement in research education.

Dawn Lang is working toward her Master's degree in forest genetics at the College of Environmental Science and Forestry in Syracuse. Her thesis will be on elms and Dutch elm disease, which she began researching at the Arboretum under the direction of Dr. David Karnosky in 1974. Isolating and fusing protoplasts of microscopic elm cells may be the first step in producing disease-resistant hybrid elms. According to Dr. Karnosky, the goal of the project is to obtain a hybrid elm which will have all the desirable ornamental and urban-hardiness traits of the American Elm and the disease resistance of the Siberian Elm. Ms. Lang will complete her Master's degree this year, and plans to work towards a doctorate in forest genetics.

Eighteen year-old Manuel Cruz has been coming to the Arboretum daily since January, 1979. A student at the Greer School in Millbrook, he is enrolled in a work-study program at Cary and has learned, with the guidance of Dr. Peter Dykeman, how to build a solar radiator, and the functions of several other forms of alternative energy. Known as a friendly mascot to the grounds crew, "Manny" has also worked under the supervision of grounds foreman John Bouton, and has studied a potpourri of valuable subjects, including the use of various hand tools, how to plant trees, how to identify edible herbs, and the testing of soils for pH balance. Manuel is one of several Greer School students at Cary, ranging in age from 14 to 18, who work on the grounds and in the greenhouse-nursery area.

Chris Glinka of Keuka College came to the Arboretum during one semester to learn how to instruct others in the use of nature trails. Chris wrote and taped a monologue to be used by hikers as a carry-along tour guide which provides complete botanical descriptions of the Wappinger's Creek Trail as it is walked. Cassette players may be checked out of the Education Office, or visitors may bring their own.

Students in YCC (Youth Conservation Corps) are responsible for a job well done in the widely acclaimed Fern Glen. Eight enthusiastic young men and women, under the supervision of grounds foreman John Bouton, spent several summer months building bridges over small streams in the glen and, with the help of the grounds staff, constructed an extensive boardwalk which leads visitors through central portions of the wet basin.

According to Dr. Peter Dykeman, who coordinates the formal education program at the Gifford House, 1,225 people attended the Arboretum's 38 courses during the 1978-79 Fiscal year. These courses provided information on such subjects as gardening, beekeeping, and environmental art, including ikebana, bonsai, and vegetable dyeing. This year's Spring selections include unique lectures and workshops on Victorian houseplants, bird identification, orchids, chair caning, and how to provide solar hot water for your home, among others.

Several events designed to appeal to specific age groups are also part of the Education Program. "The Great Paint Off",

funded by the Dutchess County Arts Council. An annual event which attracts hundreds of area third-graders who, accompanied by such characters as a troll, mimes, and "Singing scientists", explore the Arboretum grounds for nature's surprises. Afterward, the children gather on the Gifford House lawn to paint pictures depicting what they experienced on their visit. According to Dr. Peter Dykeman, involvement of other organizations with the Cary Arboretum is growing rapidly. The Gifford House Education and Visitor Center is becoming an educational meeting place for many local organizations, garden clubs,Girl Scouts, CETA training programs, and the Dutchess Community College. Extensive new interaction between the Arboretum and Marist College is currently being planned by Dr. Willard Payne, Arboretum Director, and Dr. Dennis Murray, Marist President. Working to enrich education through a knowledge of the environment, Dr. Dykeman is constantly seeking to expand the education program. He is currently developing an ethnobotany course which will be offered to high school and college level students. This program will concentrate on botany as it relates to early human cultures.

Education at the Cary Arboretum grows in many directions, influencing and yielding benefits to instructors and students alike. Perhaps Shelly Stiles, a recent graduate of the NYBG Horticulture Program summed it up by pre-visualizing how she will look back at her two-year learning experience in the Bronx and in Millbrook:

"...What I will remember with great gratitude will be the patience, the understanding, the easy friendliness, the personal fashion in which information was passed from teacher to student, and the pleasure of good results made possible by the joined efforts of hand, heart, and mind."

Energy Forum

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Board, the Builder's Association of the Hudson Valley, the Town of Milan Zoning Board, and the Association of the Hudson Valley will present a program entitled "Energy and the Good Life" at Dutchess Community College. The program will be repeated March 20 at the Dutchess County Cooperative Extension. Both sessions begin at 7:30 p.m.

On April 20 at the IBM Country Club, Poughkeepsie, a program entitled "Finding the Path to an Uncertain Future" will feature a film on Rene Dubos, the Pulitzer prize-winning philosopher/ scientist who has emphasized biomass energy study. This program begins at 7:30 p.m. and will include participation by Dr. Willard Payne, Arboretum Director.

The Cary Arboretum is one of 23 co-sponsoring organizations in the area that recognize the need for citizens to participate in simultaneous, coordinated discussions in an attempt to identify and clarify the energy issue.

People at the Arboretum

Owen Vose, Facilities Engineer...
A family man, Owen Vose, his wife, and three children live in Verbank and share the hobbies of hiking and camping.

Born in Millbrook, Owen moved to Sharon, Connecticut with his parents and sister when he was twelve, where he accepted his first paying position as a helper on Senator Ted Ryan's cattle farm. During four years in the Navy, he served as a boilerman, traveling along the eastern coast of the United States and to South America.

Although he knew his wife Janice while growing up in Connecticut, it wasn't until Owen was out of the Navy and had taken up the hobby of stock car racing that he decided the "girl next door" was the right one for him. Janice would go to the weekly races in Rhinebeck, cheering him and his "jalopy" on.

Owen joined the Arboretum staff as a vehicle maintenance man in 1974, and later took on the responsibilities of plumber and electrician for all the buildings on the Arboretum grounds.

An important step up involved the opening of the Arboretum's solar heated Plant Science Building in 1978, and the added duties of maintaining a watchful eye over the building's control and pump rooms, for which he presently has chief responsibility. "It's really not much different from a conventional heating plant," he says, "instead of a boiler, you have hot water that has been heated by the sun coming off the roof." Owen added that he was amazed at how little heat it takes to warm the building. "It's insulated like a thermos bottle," he smiles.

Spaghetti becomes the specialty of the house when Owen cooks for his family. He also enjoys gardening, cutting wood, baseball, and deer hunting. He is on the board of trustees of the Verbank United Methodist Church, and looks forward to the day when he will fulfill his desire to travel.

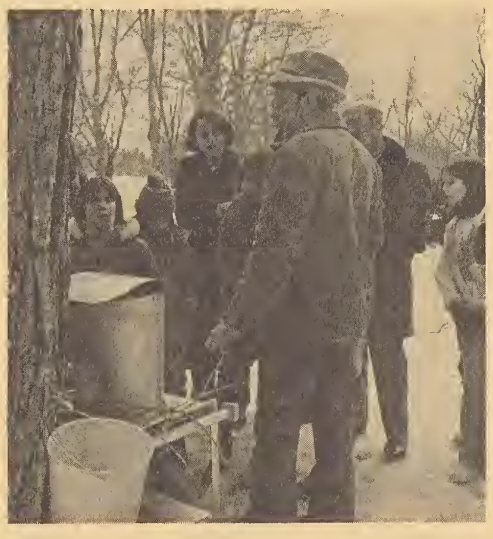
For starters, he and his wife leave for a vacation in St. Thomas, U.S. Virgin Islands, on April 10...

Sticky Stuff

(continued from page 1)

making processes, including sampling of the final products. After attending the event, anyone should be able to carry on the whole process at home, from sap to syrup or candy.

The Spring Education Program at the Arboretum has something to offer everyone in your family. Chair caning, bird identification, orchid growing, and voices of the night are just some of the courses being offered during March and April.



Dr. Peter Dykeman demonstrates the sapping process – the first step to making maple syrup.

Sunday afternoon slide talks at the Gifford House include "Egypt: Land of Contrast", by Dr. Thomas Elias on April 20, and "Collecting Plants in the Pacific Northwest", by Horticulturist Robert Hebb on April 27. Both presentations begin at 3:30 p.m.

Reserve a spot on your calendar May 8 through 10 for the third annual "Spring Thing". Just in time for Mother's Day, the Spring Thing offers special gifts including an expanded selection of flowering plants at the Gifford House Gift Shop. The popular Plant Care Clinic for Mom and everyone (May 10th only) will be set up in the Arboretum's Greenhouse on Route 82, north of U.S. Highway 44. Bring in that tired specimen, and spruce it up for spring. Repotting and treatment of plant diseases will be carried out between 9 a.m. and noon. Three plants will be treated and repotted free for "Friends of the Cary Arboretum" (one large tub may be substituted for three less-than-12" pots). Repotting and treatment for non-Cary members is $1.00 each up to a 12" pot; prices for larger containers proportionately higher. The Arboretum is unable to supply new containers, so please BYOP (bring your own pots!)

For more information on courses and activities, call the Education Department at (914) 677-5358.

At the Garden

Something is always happening at the New York Botanical Garden, and this Spring, visitors can choose from a selection of cultural events, sales, and exhibits.

The Annual Spring Flower Show is in full bloom at the Enid A. Haupt Conservatory, featuring thousands of azaleas, tulips and hyacinths displayed in glorious colorful designs. The Conservatory is open daily, 10 a.m. to 4 p.m. and Friends of the Arboretum are admitted free (be sure to bring your membership card).

On March 16 in the Cruciform Gallery of the Conservatory at 6 p.m., the New York Kammermusicker will perform a program of Renaissance, Baroque, and Modern works spanning a period of eight centuries. This double-reed ensemble is an internationally acclaimed group of chamber players.

On April 20 at 6 p.m., the Bronx Arts Ensemble will present a program of works by Mozart, Hindemith, Honegger and Rheinberger. Established in 1963, the ensemble is the Bronx's leading professional musical group.

If you're in the mood for a sale, visit the NYBG "Shop in the Garden" March 29-30. —A good time to purchase Easter plants such as lilies, hydrangeas, calceolaria, primroses and azaleas.

On April 24-26, the Garden's first major outdoor event of the season will feature lectures and guided tours of the beautiful Rock and Native Plant Garden collections. This rock garden is world-famous as an outstanding accumulation of rare species and cultivars. Rock garden plants and materials will be available in the "Shop in the Garden" throughout the festival.

Around the Arboretum

Thousands of Words on Display at PSB

A picture is worth a thousand words – so visit the Arboretum's solar heated Plant Science Building lobby between March 15 and May 9 for an exhibit of 35 black and white photographs depicting what goes on behind the scenes, as well as documents of several major events at the Cary Arboretum during the past several years.

The photographic essay, by Robin Parow with design assistance from June Payne, will be the first collection of photographs from Arboretum files to be exhibited publicly.

The display can be seen Sundays, 1:30-3:30 p.m., and Monday through Friday, 9 a.m. to 4 p.m.

Tour hours at the Plant Science Building are Wednesdays and Sundays, 1:30-3:30 p.m.

Lost and Found

During the past year, many items have been lost and found on the Arboretum grounds.

Several winter hats, sunglasses, change purses, a child's wooden puzzle, a Minolta 57mm lens cap, a medium-sized blue warm-up jacket, and a set of two gold keys are some of the items collected.

Please call Robin Parow at 677-5343 for information regarding lost and found articles.

Correction:

Due to a typographical error, the 1980 January-February Newsletter was published as Volume V, Number 6. The correct filing number for that issue is Volume VI, Number 1.

Dr. Elias Addresses Symposium

A symposium on Forest Resources Planning sponsored by the New York State Department of Environmental Conservation included a talk by Dr. Thomas Elias on issues and problems with urban forests February 28-29.

The symposium, held in Albany, included representatives of government, industry and citizen organizations who are interested in the forest resources of our State.

The purposes of the symposium are to introduce the State Forest Resources Planning Program, and to begin identification of issues in the use, protection, and management of all forest resources in New York.

THE CARY ARBORETUM
of
THE NEW YORK
BOTANICAL GARDEN

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